



# Circuit Skills: LED Color Organ

Written By: Marc de Vinck



## TOOLS:

- [Soldering/desoldering tools \(1\)](#)
- [Wire cutter/stripper \(1\)](#)



## PARTS:

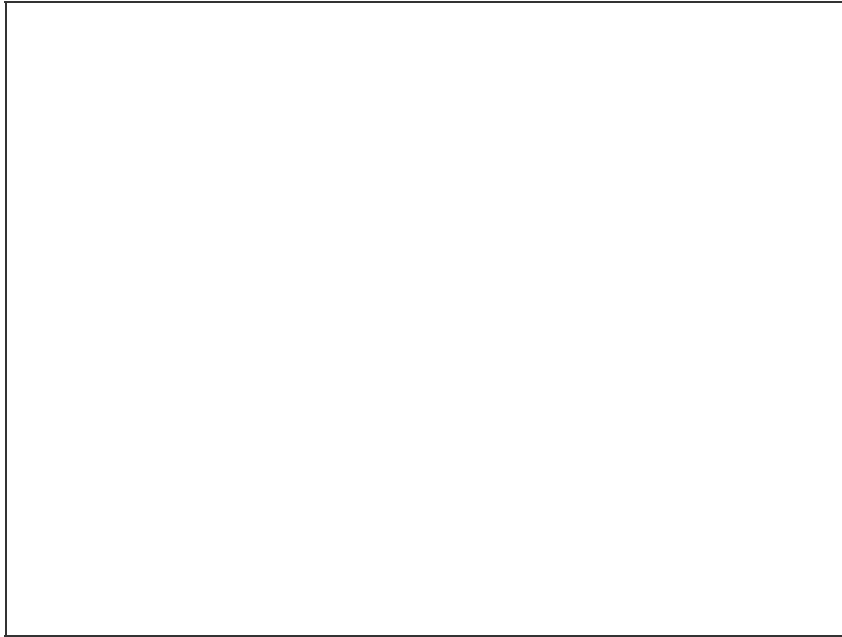
- [Color organ parts kit \(1\)](#)

## SUMMARY

Long before the dawn of digital music, folks employed the power of the electric color organ (aka “light organ”) to add some synced visuals to their hi-fi experience. Schematics for building such a beast based on AC power and incandescent bulbs can be found fairly easily [on the web](#), but plans for comparable LED-based designs seem a bit harder to come by.

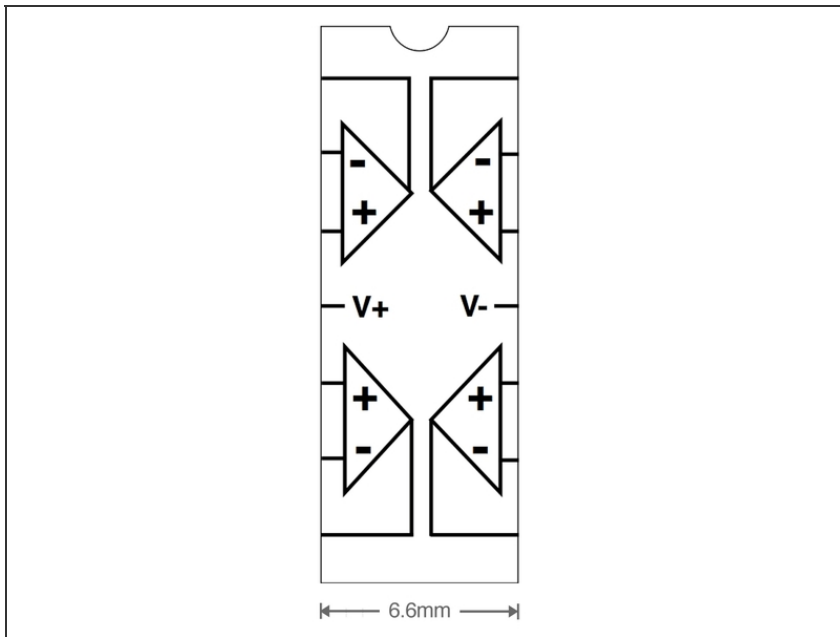
Adapted from [Aaron Cake's 3 Channel Spectrum Analyzer](#), Collin built his own analog LED Color Organ to enhance the aural experience. The circuit uses 4 operational amplifiers plus ultra-bright 5mm LEDs to respond visually for bass, mid, and treble frequencies.

## Step 1 — Circuit Skills: LED Color Organ



- The circuit uses 4 operational amplifiers plus ultra-bright 5mm LEDs to respond visually for bass, mid, and treble frequencies.

## Step 2



- In order to simplify the construction process, Collin drew up and printed a label specifying the pinout for quad op amp ICs.

This document was last generated on 2012-10-31 02:31:09 PM.